



# the Ring

"An injury is much sooner forgotten than an insult"

—Earl of Chesterfield (1694-1773)

University of Victoria

Volume 9, Number 26, November 25, 1983

## Building Canada's largest computer music system



Longton with older model of music synthesizer

By John Durkin

Michael Longton (Music) is principal investigator for a project that has received a \$41,831 grant to buy the most powerful computer music system in Canada and to develop appropriate language for it.

Co-investigators under the \$41,831 grant from the Social Sciences and Humanities Research Council (SSHRC) are Douglas Collinge (Music) and Dr. John Celona (Music).

The system's capabilities can perhaps best be understood by distinguishing them from those of normal synthesizers and home computers. Unlike a synthesizer the system does not use a keyboard but rather a computer terminal where the operator mod-

ifies programs that have been programmed previously.

"Unlike the home computer which is very limited in number and quality of sound, this system will be equivalent to a conductor with 1,000 or more different instruments in the orchestra and capable of telling each instrument what to do at every instant," says Longton. "In addition, it will be possible to do things like mutate music as in changing a voice into a trumpet."

The basis of the grant is actually the investigation of real time synthesis. "Real time in terms of computer music means hearing what you specify at the instant that you specify it," explains Longton.

"Most computer music systems are a long way from real time. You feed data into the machine and some time later you get to

hear it. The time lapse may be a few minutes to a couple of weeks. Music boards for home computers are real time for instance, but they are very limited in terms of the types of things we are talking about."

In addition to the great capacity of the new system, it will be possible to modify its internal structure. "Most systems, including our present digital synthesizer, are hard wired," explains Longton. "You can't get into the guts of the machine and program it there. The new system will be more flexible as well as being much larger and, as a consequence, more suitable for research."

The computer section of the new system has already been delivered and the signal processor is being built at Berkeley. "You can't buy something like this off the shelf," says Longton. "The one we get will be the first of its kind. It won't have a keyboard or any software. We will have to do a lot of work before it can be used in performance. It will probably be several months before it makes its first sound."

"When we do get it going, we will have the most powerful system by three or four times in Canada. There are only three or four more powerful in the world. Two of them are at universities in the United States and France. The other is owned by George Lucas of *Star Wars* fame."

The musician/composer cannot just sit down and play this machine any more than he could conduct a thousand different instruments and pay attention to each. "This is entirely different from sitting at a keyboard and playing individual notes," states Longton. "This would give you access to only a small portion of the machine's capabilities. It can do many more things at once. The problem is to organize it so one person can perform on this instrument in real time."

"The solution is to allow the machine to do some of the work for you. You allow it to make some of the decisions about what is

going to happen next. The composer/musician specifies a set of rules for the machine, sets the process in motion and then intervenes when desired."

In spite of the impressive capabilities of the machine, it is fairly small and portable. "A performer will sit with it on a stage, type in commands and music will come out," explains Longton.

The next problem for Longton is that of musical notation. In the past, composers involved in computer music have used traditional notation. The problem, according to Longton, is that "composers do the same type of music as before. They compose basically instrumental music for the computer. This is a waste as the computer can do many things that an instrument cannot."

"I'm interested in developing a composing language that is more suitable for the computer. This might involve composing music from the top down rather than from the bottom up. Traditionally a composer combines basic notes to produce the type of music desired. The problem has always been to make the concept of the music and the basic structures meet. With the computer it may be possible to start by defining the type of piece wanted followed by its parts."

"I have no idea what the music would sound like but it seems to be a valid way of going about it. It would be much like the way a sculptor works."

According to Longton, getting grants for computer music has been difficult because the many disciplines involved range from physics to linguistics. "The problem is trying to find a granting agency that will say computer music is their responsibility," claims Longton.

"It is surprising to me that it is so difficult to get computer music projects going. They are cheap. For \$42,000 we get a facility that is more powerful than anything in the country. A new grand piano can cost twice that."

## Concert blends 300 voices

Three hundred voices with full orchestral accompaniment will be raised in song when the Victoria Choral Society joins with the University of Victoria Chorus and Orchestra to present two masterpieces by Johannes Brahms and Francis Poulenc in the University Centre Auditorium Dec. 3 and 4, at 8 p.m.

George Corwin of UVic will conduct the massed chorus and orchestra in Brahms' deeply moving *German Requiem*. The *Requiem*—lyrical, emotional and profound—is Brahms at his masterful best and this performance by the combined choruses and orchestra celebrates the composer's 150th birth anniversary.

The ensembles' presentation of Francis Poulenc's *Gloria* will be conducted by Bruce More, of UVic, music director of the Victoria Choral Society. Poulenc's setting of the "Angelic Hymn" is notable for its flowing, chant-like melodies, with the supple rhythm enhanced by changing metre and by a rather unorthodox accentuation of the Latin text.

The featured guest soloists for the performance will be soprano Catherine Lewis and baritone Garth Gislason. Lewis

received her Bachelor of Music degree from UVic in 1977, then continued her education abroad in Paris and London. Before returning to Canada, she gave solo recitals in England, Switzerland, Italy and Germany, and since 1980 she has been coaching with Frances James Adaskin. Her interpretation of Benjamin Britten's *Cabaret Songs* and her remarkable performance of Luciano Berio's *Sequenza III* on a recent cross-country tour led to her being selected as narrator for the premiere performance of *The Travelling Musicians*, to be presented during the 1984 season with the Victoria Symphony Orchestra.

Gislason is well known to Victoria audiences for many major roles with productions of the Pacific Opera and as guest soloist with the UVic Chorus and Orchestra.

Tickets for the upcoming concerts, at \$5 for adults and \$4 for students, senior citizens and the disabled, can be purchased from the UVic School of Music, Sinfonia Records, Nelson's Music, and the box offices at McPherson Playhouse, Hillside Mall, and University Centre.

## Work-study projects revived with \$50,000

An additional 80 part-time, work-study positions for UVic students who qualify for financial aid will become available Nov. 28, thanks to a \$50,000 infusion of funds into the work-study program by the UVic administration.

Ted Sawchuck, director of Student and Ancillary Services, said the work-study projects will be posted in the Canada Manpower office in University Centre and students can confirm their eligibility through Financial Aid Services.

Sawchuck said the university provided the additional funding "in recognition of the financial difficulties many students are facing this year. We know there are a number of students who are eligible for work-study who were unable to obtain positions earlier this fall

and there may be others who are eligible."

Jobs will be filled on a first-come, first-served basis. The part-time positions pay \$6 an hour and most are in academic departments.

The provincial government's work-study program provided \$220,000 for part-time student positions at UVic in 1983-84 and, by the end of September, 220 projects had started.

Sawchuck explains that 145 projects originally submitted by departments and approved were not filled by students before provincial funding ran out.

"We will be notifying professors and others who had projects approved that these projects will again be posted at Canada Manpower," said Sawchuck.





Frye with dress worn by courtesan in *The Eunuch*

## Bringing history to life

By Donna Danylchuk

Bringing different periods of history to life on the stage through costumes is the delight and chosen vocation of UVic theatre student Sarah E. Frye.

"The medium, the movability, the movement of fabric on stage" has intrigued Frye since she first discovered the world of theatre in junior high school in Montreal.

"I've always looked more at costumes in movies and on stage than at sets and lighting techniques," says Frye who designed the 30 different costumes from tunics and togas to dancing girls' dresses which help bring to life the classical comedy *The Eunuch* currently on stage in the Chief Dan George Theatre of the Phoenix Building.

Designing costumes is an intrinsic part of the preparation for major productions staged by the Theatre Department, and Frye's is one of the strong talents which has emerged in this area. She is the only theatre student on campus this year studying for the M.F.A. degree in design and production, with the emphasis upon costume design, and looks forward to making her career as a costume designer for theatre and as a teacher of her profession.

The costumes designed by Frye for *The Eunuch* form part of her thesis presentation for her degree, which she hopes to complete by April, 1984. The designs which appear on the stage were created by Frye after she researched the life and lifestyles of the second century B.C. in Athens, where Roman playwright Terence set his high-spirited farce.

"It goes the way of a normal thesis, and the costumes are part of the thesis too," she explains. "I will also be doing a full thesis paper on the research I've done. Doing the research on the show and producing it—getting it on stage—is the thesis practicum."

PUBLISHER: Information Services  
P.O. BOX 1700, Victoria, B.C. V8W 2Y2  
Telephone (604) 721-7640  
International Serial Number  
ISSN 0318-8419  
EDITOR: John Driscoll  
CONTRIBUTORS: Tim Humphreys  
Donna Danylchuk  
GRAPHICS: Bob Bierman  
TYPESETTING: Helena Turner, Printing & Duplicating, University of Victoria  
PRINTER: Van Isle Trade Press, 565 David St., Victoria

**The Ring** is published every Friday during Winter Session. Letters to the editor will be published if signed and without libellous content. Letters are subject to editing to meet space requirements. Material contained in **the Ring** can be reprinted or broadcast freely without permission. Credit is not necessary but would be appreciated.

Frye particularly enjoys designing costumes for plays out of history, and this preference served her well in designing for *The Eunuch*. "There is no point in doing a thesis in costume design for a modern show—you need to get your teeth into research."

She learned she was going to design for *The Eunuch* while visiting Montreal this summer. After she was contacted by director John Krich, she did "a lot of research" at the McGill Library, then returned to Victoria to begin the process of discussions, consultations, sketching, fabric buying, producing final renderings and receiving final approvals from the director.

The building of the costumes took place in the Phoenix costume room, under the supervision of wardrobe mistress Heather Woods, "who is responsible for getting what I draw into three dimensional form."

A visit to the costume room to talk with Frye dispels any mistaken notion that the colorful, evocative designs which appear on the actors and actresses of Phoenix productions appear out of nowhere. The large airy room is filled with rows of tables covered with fabric. On the sewing machines lined up against the far wall, first year students acquire experience, sewing designs created by Frye and others who create the clothing which conveys an individual sense of mood, time and place for each production.

"Everybody has to take Theatre 105," explains Frye. First year students through this course get a basic introduction to techniques of costume making and work in the scene shop and produce "pretty fantastic results".

Frye came to UVic from Montreal after seeing photos of building models for the new Phoenix Building, which opened two years ago. She was attending Concordia University completing her B.F.A. in scenography, which included training in costume design, when she saw the photos and decided to come to UVic for her M.F.A.

The move was a good one, she believes. "The whole building is incredible. I hope that budget cuts don't mean that there will be no opportunity for people to design anymore—the facility needs to be used to its fullest extent."

Frye's plans are to work professionally for 10 to 12 years after she graduates then teach professionally at the undergraduate level. "Otherwise I would have started working three years ago—wanting to teach is my reason for getting the M.F.A."

Frye is "perfectly prepared" to go wherever there is work for designers, and is confident that she will find work once she graduates since "every theatre needs designers, whether they work from stock or fresh."

She has gained considerable experience at UVic. Other plays she has designed for the Phoenix include *Mandragola*, *Exit the King*, and *Dark of the Moon*. *The Eunuch* plays tonight at 8 p.m., and Nov. 26 at 2 and 8 p.m. Reservations can be made by calling the Phoenix box office at 721-8000.

## Musicians will surround audience

Multi-dimensional music will be performed by the UVic Wind Symphony in a free concert at 8 p.m. tonight, in the University Centre Auditorium.

Each selection in the program calls for an unusual placement of the musicians, with the performers in unorthodox groupings on the stage or placed around the concert hall.

In *Spatial Music* by Fisher Tull, the Wind Symphony is arranged in a semi-circle on stage, with the instruments ranked from treble through bass. The result is a stereophonic effect of the winds.

Three canzoni written by Giovanni Gabrieli for one, three, and five-choir brass ensemble will be performed from separate galleries, as 17th-century Gabrieli pre-

ferred in presentations of his music at St. Mark's Church in Venice. His music, big and powerful, is full of rich instrumental sounds, colorful dissonant harmonies, and lively rhythmic figures. School of Music faculty member Louis Ranger guest conducts the brass choir.

Another composition which has the musicians distributed around the auditorium is John Celona's *Arpeggio* for wind ensemble and four-channel tape. Written in 1978, the piece incorporates Hindustani raga into computer-generated music.

Also programmed for the event are the British band classic, *Music for a Festival* by Gordon Jacob and the antiphonal *Music for Two Wind Bands* by Handel.

## Reunion offered as lunchtime fare

Opening Nov. 28 in the Barbara McIntyre Studio is *Reunion*, by David Mamet, the second free lunchtime theatre production staged by the Phoenix Theatre this fall.

Directed by Daniel Gill, who is studying for an M.F.A. in direction and production, *Reunion* will be presented at 12:30 p.m. to Dec. 2 in the Phoenix Theatre Building.

The play documents the first meeting in 20 years between a 53-year-old recovered alcoholic and his daughter. The drama of the play is not that of stormy retribution but of the deathly silence of having nothing to say yet having to say something, explains Gill.

"The more they try to make it a happy event, the more we are aware that all is lies and subterfuge. These people are strangers

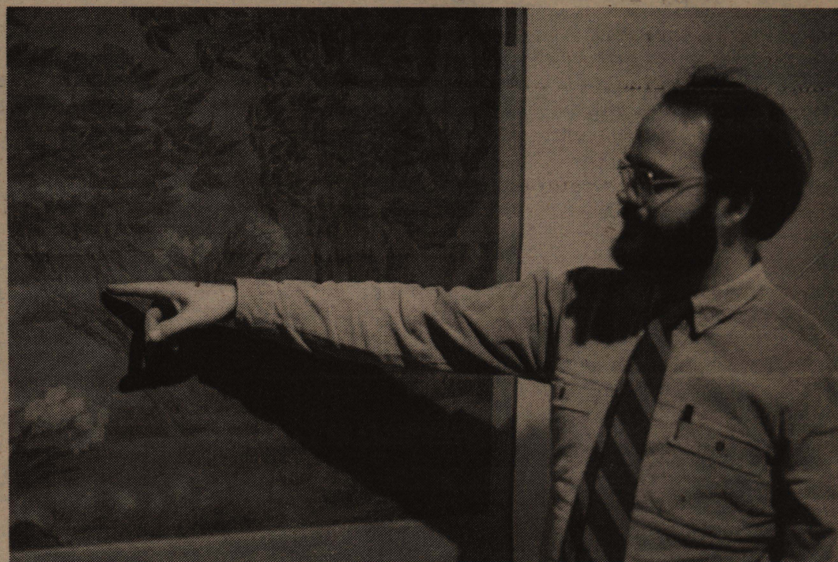
desperately trying to renew a bond which never existed between them."

The part of Bernie, the alcoholic, is played by Hugh Wilkinson and his daughter, Carol, is played by Teresa Norris. Their encounter takes place in Bernie's apartment in Boston, Massachusetts on a Sunday afternoon in 1973.

Technical Director is Geoff Wilkinson, costume designer is Terri Bardon, lighting designer is Robin Cormack and sound designer is Roger Gaudet.

"David Mamet's excellent ear for dialogue, his spare, clean staging and his profound understanding of how people really think and act, have produced a play that is warm, wistful and, above all, remarkably human," says Gill.

## Scrolls tell conservation story



Segger points to damaged scroll discovered in attic crawl space

The 18 oriental scroll paintings on exhibition at the Maltwood Gallery until Dec. 4 are an excellent visual display of an ancient Chinese art and they serve a second purpose.

"They demonstrate the conservation program which the university is undertaking in order to restore these works of art for study and enjoyment," says Maltwood curator Dr. Martin Segger.

"Some have been completely restored while others are in urgent need of attention."

The exhibition marks the first public display of the complete collection of oriental scroll paintings acquired by UVic as part of the Maltwood bequest.

The scrolls were collected by John and Katharine Maltwood during extensive travels in India, China, Korea and Japan.

Two of the scrolls best illustrate the art of restoration and the continuing need for it.

One scroll, *Scholars and Servants in a Landscape*, suffered major water damage as well as fading and embrittlement caused by over-exposure to unfiltered sunlight. It was sent to a scroll restoration studio in Kyoto, Japan, where it was remounted, repaired and restored to its original beauty.

Another scroll, *Foliage and Rocks*, was discovered in 1979 in an attic crawlspace in the Maltwood Estate. "Moisture and probably mould growth has caused bands of discoloration on one side of the scroll," explains Segger.

The damaged and restored scrolls are all on display, protected from further fading by ultra-violet plexiglass and a new lightweight framing and matting system developed by the Maltwood in conjunction with Opus Framing in Vancouver.

Along with a catalogue description of each scroll, a description of the conservation completed or needed is included in the exhibition.

"Our plan is to slowly move through the entire collection as funds become available for conservation," says Segger. "We have completed the cleaning and restoring of the oriental ceramics in the Maltwood Collection and these were on display earlier this year."



# UVic honors polar explorer, pioneer guide and Cabinet Minister in Papua New Guinea

Arc  
LE3  
V4aA33



Munday: holds highest awards given by Girl Guides, St. John's Ambulance

by Tim Humphreys

UVic's Fall Convocation ceremony will be held Nov. 26 in the University Centre Auditorium beginning at 2 p.m. More than 400 graduates will receive degrees.

Honorary degrees will be conferred on Phyllis Munday, 89, a founding member of the Canadian Girl Guides, Dame of Grace of St. John's Ambulance and noted mountaineer and naturalist; Dr. Ernest Frederick Roots, 60, science advisor to the Canadian Department of the Environment, mountaineer, oceanographer and world-renowned authority on the Arctic; and UVic alumnus the Hon. Rabbie Langanai Namaliu, 36, Minister of Foreign Affairs for Papua New Guinea.

Munday was born in Ceylon in 1894 and moved to Canada at the age of six. She has been active in the Girl Guides since the organization's inception in 1910, and at the age of 15, helped form the first Girl Guide company in British Columbia. Until recently, she was the Guides' Provincial Nature Advisor and holds the highest awards in Guiding, including the first Bronze Cross for heroic rescue awarded in Canada.

In 1920, she joined the Alpine Club of Canada and, in the company of her husband, Don, climbed more than 100 of British Columbia's highest mountains. In 1924, she became the first woman to reach the top of Mt. Robson. In 1928, in the company of her husband, she made the first ascent of Mt. Waddington's northwest peak. One of the three peaks in the group was later named Mt. Munday. She is now an honorary member of the Alpine Club and holds the Silver Rope leadership badge.

In 1940, Munday became a member of St. John's Ambulance. She organized the Nursing Division of North Vancouver, and during the Fraser River flood was placed in charge of first aiders working in the area.

She now holds the highest award given by the society, Dame of Grace.

Munday is also a noted naturalist and photographer, receiving many local and international awards. She has been an active campaigner for conservation.

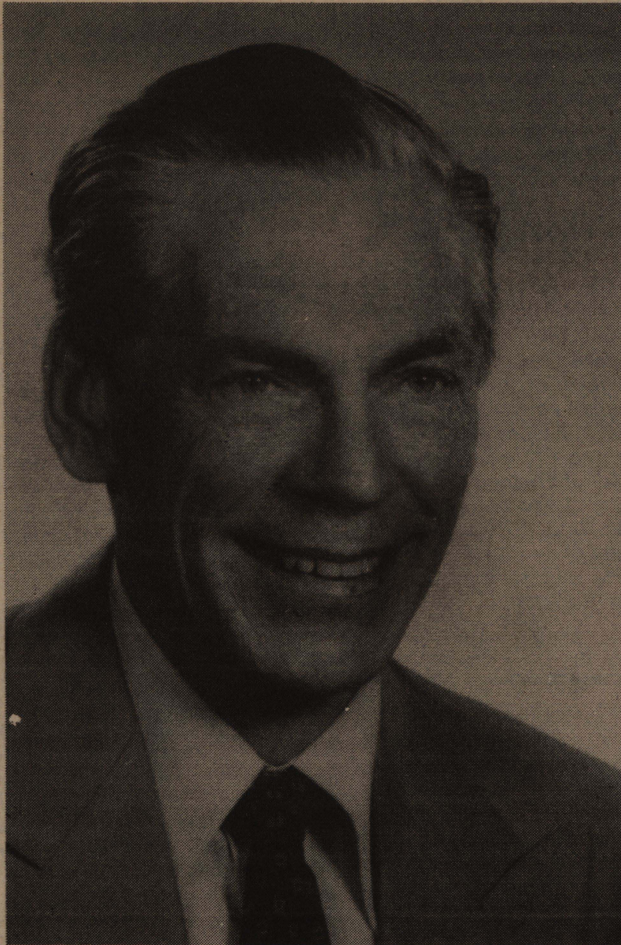
In 1973, Munday was awarded the Order of Canada. An honorary Doctor of Laws degree will be conferred upon her at the Convocation ceremony.

Roots was born in Salmon Arm, B.C. in 1923 and received his early schooling in Banff. He received his M.A. in Geological Engineering from UBC in 1947 and his Ph.D. in Geology from Princeton in 1949.

He has dedicated his professional career to gaining a greater understanding of the geology, glaciology, stratigraphy and technophysics of Arctic North America and the Arctic Ocean Basin; to the evolution of polar and alpine landscapes; and to the wise development and use of the earth's resources.

He joined the Geological Survey of Canada in 1948 and was associated with its Arctic and Subarctic studies for more than a decade.

In 1949, at the age of 26, he became the Senior Geologist with the Norwegian-British-Swedish Antarctic Expedition, the first major study of Antarctica. He



Roots: world-renowned authority on the Arctic

returned to the position of Research Fellow at the Scott Polar Research Institute at Cambridge University where he served as a tutor from 1953-1955. He was also associated with Princeton University in 1952-1953.

His achievements in the scientific exploration of polar regions led to his appointment as Deputy Leader of Operation Franklin in 1955, the first intensive geological investigation of the Canadian Arctic Archipelago.

In 1956, as leader of Operation Stikine, he helped develop the helicopter support technique for geological mapping of remote alpine areas. He was organizer, leader and Chief Scientific Officer of the highly successful Polar Continental Shelf Project from 1958 to 1971, and leader of the first Canadian Himalayan Expedition in 1964. In 1971-1972, he was involved in the preparation of scientific papers on environmental aspects of mineral and energy development for the United Nations Secretariat for the UN Conference on the Human Environment, and later served as a member of the Canadian delegation to the conference.

He is a Governor of the Arctic Institute of North America, a member of the Polar Research Board of the U.S. National Academy of Science, the International Association of Hydrological Sciences, a past president of the North American Branch of the International Geological Society, a founding member and Acting Secretary of Comite Arctique Internationale, past president of the International Commission on Snow and Ice, and from 1973 to 1982, was Executive Secretary to the Canadian Environmental Advisory Society.

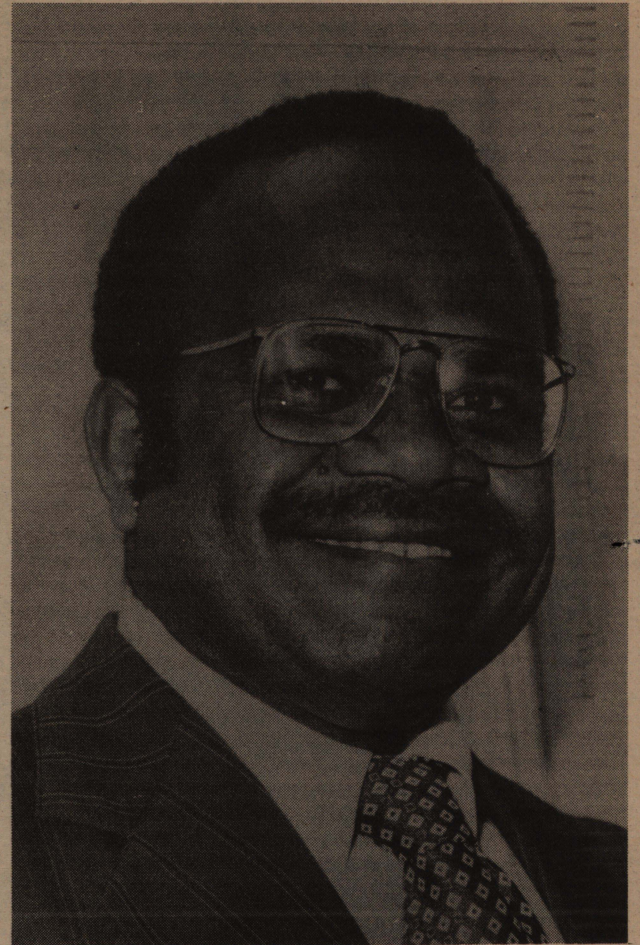
Roots has received the Distinguished Service Medal of Norway, the Polar Merit Pin of the U.S.S.R., the Polar Medal and Patron's Gold Medal of the Royal Geographical Society of Great Britain, the American Polar Medal and the Massey Medal.

He has published 80 papers in the earth science disciplines on questions dealing with man's use of the earth's resources and the role of scientific knowledge in resource and development policies. He has also been involved with the Antarctic Project of the International Geophysical Year, the Upper Mantle Project and the WMO/UNESCO Global Atmospheric Research Project.

An honorary Doctor of Science degree will be conferred upon Roots at the Convocation ceremony.

Namaliu was born in the East New Britain province of Papua New Guinea in 1947. Following completion of his secondary education, he received a scholarship to attend the newly established University of Papua New Guinea in 1966. He received a B.A. degree in 1970 and was awarded a Commonwealth Scholarship that year to study at UVic.

He completed his graduate studies in 1972, receiving his M.A. degree, and joined the faculty of the University of Papua New Guinea in January of 1973. Shortly thereafter, in January, 1974, he was seconded to the Office of the Prime Minister where he served as the PM's private secretary. He was a member of the Papua New Guinea delegation to the United Nations for Papua New Guinea's admission as a member of that organization in 1975. He was appointed Provincial Commissioner for his



Namaliu: UVic alumnus is now Minister of Foreign Affairs

home province of East New Britain in 1976 and became Chief of the Public Service Commission later that year. He served as a delegate for his country's UN delegation to the General Assembly in 1979.

In 1982, he was elected a member of Parliament and was asked to join the Cabinet in the portfolio he presently holds.

Namaliu has been awarded the Independence Medal in 1975, the Queen's Silver Jubilee Medal in 1977 and was made a Commander of the Order of St. Michael and St. George in the Queen's birthday honours of 1979.

An honorary Doctor of Laws degree will be conferred upon him at the Convocation ceremony.

## Biomedical researchers join underfunding outcry

The 3,500-member Canadian Federation of Biological Societies has endorsed the "statement of national concern" over the underfunding of universities across Canada made in October by the Academy of Science of the Royal Society of Canada.

The Federation represents scientists actively engaged in biomedical research.

In its statement, the Academy, made up of 600 distinguished scientists from government, industry and universities, said it was a matter of "urgent national priority" that the "trend of persistent underfunding of universities be reversed."

The Federation, in its statement said effects of long-term federal underfunding of research at Canadian universities have been compounded by sustained provincial underfunding of both teaching and research activities.

"The amount of obsolete, obsolescent and even hazardous equipment which must still be pressed into service is alarming. When the universities are faced with persistent underfunding, we fail to attract and develop the young scientists who are necessary to continue the work."

"In a situation where the economy is in great peril, the provision of adequate funding for our universities has not been given the priority that it needs. We cannot sacrifice a generation of scientists by making university education unattractive or unfulfilling through the offering of poor facilities and meager rewards."



## Monday, November 28th.

- Maltwood Art Museum and Gallery. *Chinese Paintings (from the Maltwood Collection)*. Continues until Dec. 4. Gallery hours are 10 a.m. to 4 p.m. Monday to Friday, 12 noon to 4 p.m. Sunday, and during evening events at the University Centre Auditorium.
- McPherson Library Gallery. *Work by Members of the Art Education Faculty*. Continues until Jan. 6, 1984. Gallery hours are 8 a.m. to 11 p.m. Monday to Thursday, 8 a.m. to 9 p.m. Friday, 10 a.m. to 10 p.m. Saturday and Sunday.
- 12:30 p.m. *Reunion* by David Mamet—the Theatre Department's second of two free lunchtime plays this fall. Directed by Daniel Gill. Continues daily until Dec. 2. Barbara McIntyre Studio, PHOENIX BUILD. NG.
- 3:00 p.m. Board of Governors meets. Senate & Board Room, University Centre.
- 7:15 p.m. Cinecenta films. *Before the Revolution* (Italy 1964). Subtitles. Admission charge. SUB Theatre.
- 9:15 p.m. School of Music Degree Recital—Susan Gould, piano (B. Mus.). No admission charge. MUSIC BUILD-ING, RECITAL HALL.
- 8:15 p.m. The University Extension Association Program presents Dr. J.S. Bland, Geriatric Psychiatrist, speaking on "How To Grow Old (Dis)Gracefully." Fees are \$5 per year (6 remaining lectures) or \$1 per lecture. Students free. BEGB 159.
- ## Tuesday, November 29th.
- 12:30 p.m. The Dept. of English presents Prof. Judith Mitchell (English) speaking on "George Moore and Thomas Hardy: Sexuality in *Esther Waters* and *Tess of the D'Urbervilles*." CLER C108.
- ## Wednesday, November 30th.
- 7:15 p.m. Cinecenta films. *Throne of Blood* & (Japan 1957). Subtitles. Admission charge. SUB Theatre.
- ## Thursday, December 1st.
- 12:30 p.m. Seminar presented by the Dept. of Biology. Dr. R. Foreman, Director, Bamfield Marine Station, will speak on "Studies in Marine Plant Resources in B.C." CUNN 146.
- 1:30 p.m. Seminar presented by the Dept. of Chemistry. Prof. W.A. Szarek, Queen's University, will speak on "Recent Advances in Carbohydrate Chemistry." ELLI 162.
- 7:15 p.m. Cinecenta films. Double feature. *Rock 'n' Roll High School* and *High School Confidential*. Admission charge. SUB Theatre.
- ## Friday, December 2nd.
- 12:30 p.m. Fridaymusic (ensembles). Free noonhour recital featuring School of Music students. MUSIC BUILD-ING, RECITAL HALL.
- 7:00 p.m. Basketball games. UVic Vikings & host Pacific Rim Classic. Continues until Dec. 3. MCKI GYM.
- 7:15 p.m. Cinecenta films. *Trading Places*. Admission charge. SUB Theatre.
- 9:15 p.m. University of Victoria Chorus and Orchestra—George Corwin, conductor, and the Victoria Choral Society—Bruce E. More, conductor. Tickets are \$5 for Adults, \$4 for Students, Senior Citizens and the Disabled. University Centre Auditorium. (Second performance scheduled for 8 p.m. Dec. 4).
- ## Saturday, December 3rd.
- 7:15 p.m. Cinecenta films. *Trading Places*. Admission charge. SUB Theatre.
- 9:15 p.m. University of Victoria Chorus and Orchestra—George Corwin, conductor, and the Victoria Choral Society—Bruce E. More, conductor. Tickets are \$5 for Adults, \$4 for Students, Senior Citizens and the Disabled. University Centre Auditorium. (Second performance scheduled for 8 p.m. Dec. 4).
- ## Sunday, December 4th.
- 1:00 p.m. Last movie this term in weekly & Sunday matinee series presented by University Daycare Services. Disney's *Tron*. Tickets are \$1.50 for Children and Students, \$2.50 general admission. SUB Theatre.
- 7:15 p.m. Cinecenta films. *Pirates of Penzance*. Admission charge. SUB Theatre.
- 9:15 p.m. Theatre.
- ## Monday, December 5th.
- Last day of classes in first term (except for Faculty of Human and Social Development, Faculty of Law and Professional Years in Faculty of Education, TBA).

- 7:15 p.m. Cinecenta films. *Faces of Love* & (Swiss 1978). Subtitles. Admission charge. SUB Theatre.
- 9:15 p.m. School of Music Degree Recital—Gordon Clements, clarinet (M.Mus.). No admission charge. MUSIC BUILD-ING, RECITAL HALL.

## Thursday, December 1st.

Phoenix Theatre Gallery. *George Casprowitz—a display of bold, acrylic paintings*. Continues until Jan. 6, 1984. Hours are 8:30 a.m. to 5 p.m. Monday to Friday, and in conjunction with theatre performances.

## Wednesday, December 7th.

First term examinations begin (except Faculty of Human and Social Development, Faculty of Law, and Professional Years in Faculty of Education, TBA).

9:30 a.m. Faculty of Arts and Science meets. ELLI 167.

2:30 p.m. Faculty of Law meets. BEGB 205.

7:30 p.m. Senate meets. Senate & Board Room, University Centre.

## Notebook

The final edition of *the Ring* for 1983 will be distributed on campus, Dec. 9. The first edition of 1984 will be distributed Jan. 6. Anyone wishing to publicize events on campus between these two dates should have complete information to Cindy Lowe in Information Services by Dec. 5.

An informational session for all students interested in applying for admission to second year studies in the Faculty of Engineering will be held at 12:30 p.m. in Room A106 of the Clearihue Building. **Dr. Len Bruton**, Dean of Engineering and **Dr. Andreas Antoniou**, chairman of Electrical Engineering, will be on hand along with **David Glen**, Director of Admission Services, to explain the application procedures for admission to the academic and Co-operative Education Program components of engineering.

A unique concept in aerobic fitness is scheduled for Dec. 4 at the McKinnon Gym beginning at 2:30 p.m. as UVic's Department of Athletics and Recreational Services presents The Yule-Tide Aerobathon—a two and one half hour continuous workout to music. Ten of Victoria's finest aerobic instructors representing area recreation centres and fitness institutions will alternate in directing the session, each adding their personal style and variety of instruction. Registration is limited to 300 participants with registration forms available at area recreation and fitness centres as well as at UVic. Pre-registration is \$5 per person or in person at the door Dec. 4 for \$6.

The campus community is invited to meet informally with **Robert Kaplan**, Solicitor General of Canada, at a wine and cheese reception organized by the UVic Liberal Club in the Clearihue Lounge (C-305), Nov. 26 from 7:30 to 9:30 p.m. Admission is \$3.50 for students and \$5 for others.

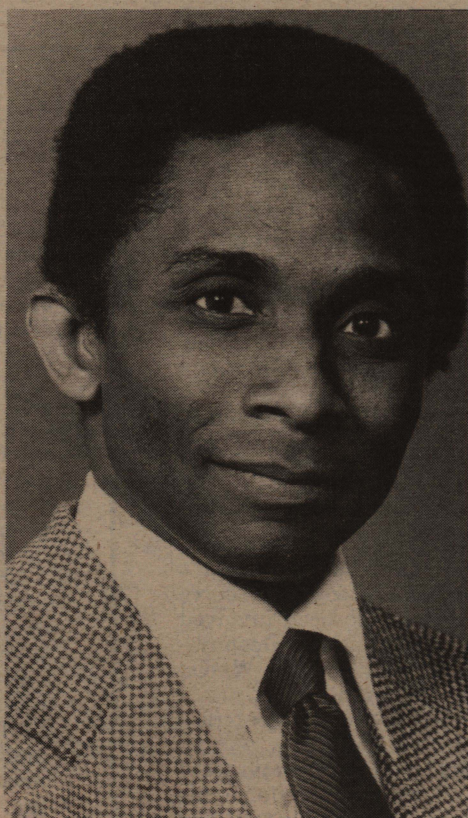
Dr. J.S. Bland, geriatric psychologist, speaks on "How to Grow Old (Dis)Gracefully" in a University Extension Association lecture Nov. 28 at 8:15 p.m. in Room 159 of the Begbie Building. Admission price is \$1, with students admitted free to association lectures.

**Ron Cullen** (Buildings and Grounds) is the new president of CUPE Local 917, representing about 250 outside workers and food services personnel. Cullen took over Nov. 16 from **Bill Mackereith** (Buildings and Grounds) who stepped down after five years as Local 917 president. Mackereith will continue to act as chairman of the Local 917 negotiating committee, bargaining with the university over a new collective agreement. University and Local 917 negotiators have not met since June but are scheduled to meet Dec. 7. The last collective agreement with the two CUPE locals ran until March, 1983.

The UVic Vikings basketball team is preparing for the Pacific Rim Tournament Dec. 2 and 3 at the McKinnon Centre with a rigorous week of exhibition games against top United States colleges. The Vikes dropped a disappointing 84-67 game to the University of Nevada at Las Vegas Runnin' Rebels, Nov. 21 before about 10,000 fans in Las Vegas. The Rebels have been consistently rated in the top 20 NCAA Division One teams in the U.S. in recent years and at one point in the 1982-83 season, were ranked as the top university team in the U.S. The Vikings moved on to tackle the University of Nevada at Reno Wolf Pack Nov. 23 in Reno and return home to square off against the Western Washington University Vikings in an exhibition contest, Nov. 26 beginning at 8 p.m. in the McKinnon Centre. The Pacific Rim Tournament, which the Vikings have never won, features Ching-Ang University of Korea, Athletes in Action (AIA), the Canadian national team and the Vikes. The national team and AIA have both defeated the Vikings this season. Games Dec. 2 begin at 7 and 9 p.m.

Student composers in the School of Music will present a free concert Nov. 26 at 8 p.m. in the Recital Hall of the Music Building. Included will be compositions by students from second year to the graduate level.

## Conservation: it's in Canada's best interests



Brown: heads UN Environment Program

By Donna Danylchuk

It's in Canada's interest to take a leadership role in world environmental management, according to the director of the United Nations Environment Program who last week gave the first lecture for the 1983-84 UVic Distinguished Lectures Series.

Dr. Noel Brown spoke to an audience of 225 people on *The Global Environment and*

*the Politics of Human Survival*, Nov. 17.

Brown, a Jamaican, said that Vancouver Island and his native country both depend heavily on tourists, and have, as a common interest with other tourist-oriented areas, the need to manage their environments to keep them attractive to the tourist industry.

In an interview, Brown said he believes that the global problem of managing the environmental resources of this planet can have a successful outcome. His United Nations program, based in New York, works on measures to develop global cooperation in environmental management and techniques and methodologies of environmental protection.

"I am optimistic at this stage, because I've seen what has happened in 10 years since the Stockholm Conference on the Environment, in terms of allocating budgets, organizing programs and techniques. We think that Canadian leadership as a middle power is very important," says Brown.

Before the Stockholm conference, the developing nations had seen environmental management as an industrial nations problem which did not apply to their countries. "There was no East-West confrontation at Stockholm but a North-South one," says Brown. That perspective has now changed, and the "pollution of poverty" is recognized by the developing nations, who see that the misuse of natural resources, overpopulation, and too many people in small spaces can pose problems to the environment as urgent as those posed by industrial society.

Among industrial nations, there is now an "agreed agenda" of environmental concerns requiring action, which includes managing atmospheric resources to avoid acid rain and the greenhouse effect of excess carbon dioxide in the atmosphere, and managing wastes to prevent toxic

imbalances in the soil, he says.

A new environmental concern has arisen in the past two years with the discovery of waste contaminants from microchip processing, found in the waters of Silicon Valley in California, says Brown.

A major environmental concern with obvious implications for British Columbia is how to manage the forests of the world, he notes.

"Forests are needed now more than ever, because through photosynthesis they are natural sinks for carbon dioxide. We don't know the basic minimum of green space required on the earth, yet in the tropics today we are eliminating 20 hectares (50 acres) of forest a minute for development and lumber."

Soil too is being lost at a "fantastic rate" today, and has to be protected and preserved.

Another of the "active concerns" of the UN environmental program, is the loss of genetic material in the world. "We are losing one life form a day—in plant or animal form. Although we do not fully understand the implications of lessening the diversity of the world's genetic forms, it is understood that maintaining the diversity is very important, Brown says.

The United Nations now has a code of principles including the statement that investment must be soundly-based environmentally, and Brown says the UN hopes such principles will be recognized in bilateral development assistance programs and expanded to commercial banks.

Next year, he says, the UN is holding a world industry conference on environmental management in Europe, which will invite leaders from private business and the world community to explore such questions as "Are the multinational companies the villains of environment degradation or has the private sector made advances in environmental protection?"